

Marie-Odile Parat

List of Publications by Year in descending order

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86
papers

3,650
citations

101384

36
h-index

143772

57
g-index

88
all docs

88
docs citations

88
times ranked

5491
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent Supercritical Fluid Technologies to Extract Bioactive Compounds from Natural Sources: A Review. <i>Molecules</i> , 2017, 22, 1186.	1.7	273
2	Morphine and tumor growth and metastasis. <i>Cancer and Metastasis Reviews</i> , 2011, 30, 225-238.	2.7	153
3	Can regional analgesia reduce the risk of recurrence after breast cancer?. <i>Contemporary Clinical Trials</i> , 2008, 29, 517-526.	0.8	149
4	A role for caveolae in cell migration. <i>FASEB Journal</i> , 2004, 18, 1801-1811.	0.2	141
5	Differential Caveolin-1 Polarization in Endothelial Cells during Migration in Two and Three Dimensions. <i>Molecular Biology of the Cell</i> , 2003, 14, 3156-3168.	0.9	137
6	Photodynamic Effects of Hypericin on Lipid Peroxidation and Antioxidant Status in Melanoma Cells. <i>Photochemistry and Photobiology</i> , 1996, 64, 375-381.	1.3	125
7	Discovery and Structure-Activity Relationships of a Highly Selective Butyrylcholinesterase Inhibitor by Structure-Based Virtual Screening. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 7683-7689.	2.9	115
8	Calcium Channel TRPV6 as a Potential Therapeutic Target in Estrogen Receptor-Negative Breast Cancer. <i>Molecular Cancer Therapeutics</i> , 2012, 11, 2158-2168.	1.9	109
9	Modulation of p53 protein conformation and DNA-binding activity by intracellular chelation of zinc. , 1998, 21, 205-214.		98
10	Abrogation of PIK3CA or PIK3R1 reduces proliferation, migration, and invasion in glioblastoma multiforme cells. <i>Oncotarget</i> , 2011, 2, 833-849.	0.8	95
11	Non-Stimulated, Agonist-Stimulated and Store-Operated Ca ²⁺ Influx in MDA-MB-468 Breast Cancer Cells and the Effect of EGF-Induced EMT on Calcium Entry. <i>PLoS ONE</i> , 2012, 7, e36923.	1.1	85
12	Consensus statement from the BJA Workshop on Cancer and Anaesthesia. <i>British Journal of Anaesthesia</i> , 2015, 114, 2-3.	1.5	83
13	Anticancer activity of <i>Cucurbita papaya</i> : A review. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 153-164.	1.5	82
14	Chapter 4 The Biology of Caveolae. <i>International Review of Cell and Molecular Biology</i> , 2009, 273, 117-162.	1.6	80
15	Bifunctional Succinylated μ -Polylysine-Coated Mesoporous Silica Nanoparticles for pH-Responsive and Intracellular Drug Delivery Targeting the Colon. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9470-9483.	4.0	77
16	PTRF-cavin-1 expression decreases the migration of PC3 prostate cancer cells: Role of matrix metalloprotease 9. <i>European Journal of Cell Biology</i> , 2011, 90, 136-142.	1.6	69
17	Involvement of zinc in intracellular oxidant/antioxidant balance. <i>Biological Trace Element Research</i> , 1997, 60, 187-204.	1.9	65
18	Palmitoylation of Caveolin-1 in Endothelial Cells Is Post-translational but Irreversible. <i>Journal of Biological Chemistry</i> , 2001, 276, 15776-15782.	1.6	63

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19	Zinc and DNA fragmentation in keratinocyte apoptosis: its inhibitory effect in UVB irradiated cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997, 37, 101-106.	1.7	61
20	Are caveolae a cellular entry route for non-viral therapeutic delivery systems?. <i>Advanced Drug Delivery Reviews</i> , 2015, 91, 92-108.	6.6	60
21	Photodynamically induced cytotoxicity of hypericin dye on human fibroblast cell line MRC5. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1995, 27, 139-146.	1.7	59
22	Caveolin-1 Plays a Critical Role in the Differentiation of Monocytes into Macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, e117-25.	1.1	57
23	Assessment of gene expression of intracellular calcium channels, pumps and exchangers with epidermal growth factor-induced epithelial-mesenchymal transition in a breast cancer cell line. <i>Cancer Cell International</i> , 2013, 13, 76.	1.8	53
24	Mango Extracts and the Mango Component Mangiferin Promote Endothelial Cell Migration. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5181-5186.	2.4	52
25	Morphine Modulates Interleukin-4- or Breast Cancer Cell-induced Pro-metastatic Activation of Macrophages. <i>Scientific Reports</i> , 2015, 5, 11389.	1.6	52
26	Comparison and analysis of the animal models used to study the effect of morphine on tumour growth and metastasis. <i>British Journal of Pharmacology</i> , 2015, 172, 251-259.	2.7	52
27	Remodeling of Purinergic Receptor-Mediated Ca ²⁺ Signaling as a Consequence of EGF-Induced Epithelial-Mesenchymal Transition in Breast Cancer Cells. <i>PLoS ONE</i> , 2011, 6, e23464.	1.1	52
28	Morphine and breast tumor metastasis: the role of matrix-degrading enzymes. <i>Clinical and Experimental Metastasis</i> , 2014, 31, 149-158.	1.7	51
29	Co-Regulation of Cell Polarization and Migration by Caveolar Proteins PTRF/Cavin-1 and Caveolin-1. <i>PLoS ONE</i> , 2012, 7, e43041.	1.1	49
30	Caveolin-1, caveolae, and glioblastoma. <i>Neuro-Oncology</i> , 2012, 14, 679-688.	0.6	48
31	Caveola-forming proteins caveolin-1 and PTRF in prostate cancer. <i>Nature Reviews Urology</i> , 2013, 10, 529-536.	1.9	48
32	Activation of μ -opioid receptor and Toll-like receptor 4 by plasma from morphine-treated mice. <i>Brain, Behavior, and Immunity</i> , 2017, 61, 244-258.	2.0	48
33	Cavin Family. <i>International Review of Cell and Molecular Biology</i> , 2015, 320, 235-305.	1.6	43
34	Effect of the Biphenyl Neolignan Honokiol on A β ²⁵⁻³⁵ -Induced Toxicity in <i>Caenorhabditis elegans</i> , A β ²⁵⁻³⁵ Fibrillation, Cholinesterase Activity, DPPH Radicals, and Iron(II) Chelation. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1901-1912.	1.7	43
35	PTRF/Cavin-1 decreases prostate cancer angiogenesis and lymphangiogenesis. <i>Oncotarget</i> , 2013, 4, 1844-1855.	0.8	42
36	Diet-induced hypercholesterolemia promotes androgen-independent prostate cancer metastasis via IQGAP1 and caveolin-1. <i>Oncotarget</i> , 2015, 6, 7438-7453.	0.8	41

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37	Morphine Use in Cancer Surgery. <i>Frontiers in Pharmacology</i> , 2011, 2, 46.	1.6	40
38	Oxidative stress inhibits caveolin-1 palmitoylation and trafficking in endothelial cells. <i>Biochemical Journal</i> , 2002, 361, 681-688.	1.7	37
39	Chemical Characterization and in Vitro Cytotoxicity on Squamous Cell Carcinoma Cells of Carica Papaya Leaf Extracts. <i>Toxins</i> , 2016, 8, 7.	1.5	37
40	Anticancer activities of dietary benzyl isothiocyanate: A comprehensive review. <i>Pharmacological Research</i> , 2021, 169, 105666.	3.1	36
41	Altered Angiogenesis in Caveolin-1 Gene-Deficient Mice Is Restored by Ablation of Endothelial Nitric Oxide Synthase. <i>American Journal of Pathology</i> , 2012, 180, 1702-1714.	1.9	33
42	Reassessing the Role of Phosphocaveolin-1 in Cell Adhesion and Migration. <i>Traffic</i> , 2007, 8, 1695-1705.	1.3	32
43	Traditional Aboriginal Preparation Alters the Chemical Profile of Carica papaya Leaves and Impacts on Cytotoxicity towards Human Squamous Cell Carcinoma. <i>PLoS ONE</i> , 2016, 11, e0147956.	1.1	31
44	Morphine decreases the pro-angiogenic interaction between breast cancer cells and macrophages in vitro. <i>Scientific Reports</i> , 2016, 6, 31572.	1.6	29
45	Caveolin-1 polarization in transmigrating endothelial cells requires binding to intermediate filaments. <i>Angiogenesis</i> , 2007, 10, 297-305.	3.7	28
46	Oxidative stress inhibits caveolin-1 palmitoylation and trafficking in endothelial cells. <i>Biochemical Journal</i> , 2002, 361, 681.	1.7	27
47	Multifunctional Analogs of Kynurenic Acid for the Treatment of Alzheimer's Disease: Synthesis, Pharmacology, and Molecular Modeling Studies. <i>ACS Chemical Neuroscience</i> , 2017, 8, 2667-2675.	1.7	26
48	Rivastigmine and metabolite analogues with putative Alzheimer's disease-modifying properties in a <i>Caenorhabditis elegans</i> model. <i>Communications Chemistry</i> , 2019, 2, .	2.0	25
49	Effect of Perioperative Opioids on Cancer-Relevant Circulating Parameters: Mu Opioid Receptor and Toll-Like Receptor 4 Activation Potential, and Proteolytic Profile. <i>Clinical Cancer Research</i> , 2018, 24, 2319-2327.	3.2	22
50	Stably engineered nanobubbles and ultrasound - An effective platform for enhanced macromolecular delivery to representative cells of the retina. <i>PLoS ONE</i> , 2017, 12, e0178305.	1.1	22
51	Non-caveolar caveolin-1 expression in prostate cancer cells promotes lymphangiogenesis. <i>Oncoscience</i> , 2015, 2, 635-645.	0.9	22
52	Interaction of Opioids with TLR4 Mechanisms and Ramifications. <i>Cancers</i> , 2021, 13, 5274.	1.7	21
53	Does Manganese Protect Cultured Human Skin Fibroblasts Against Oxidative Injury by Uva, Dithranol and Hydrogen Peroxide?. <i>Free Radical Research</i> , 1995, 23, 339-351.	1.5	18
54	Morphine alters the circulating proteolytic profile in mice: functional consequences on cellular migration and invasion. <i>FASEB Journal</i> , 2017, 31, 5208-5216.	0.2	16

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55	Molecular Determinants of the Cellular Entry of Asymmetric Peptide Dendrimers and Role of Caveolae. PLoS ONE, 2016, 11, e0147491.	1.1	16
56	Impairment of cultured cell proliferation and metallothionein expression by metal chelator NNNâ€™ Nâ€™-tetrakis-(2-pyridylmethyl) ethylene diamine. Biological Trace Element Research, 1999, 70, 51-68.	1.9	15
57	Matrix protease production, epithelial-to-mesenchymal transition marker expression and invasion of glioblastoma cells in response to osmotic or hydrostatic pressure. Scientific Reports, 2020, 10, 2634.	1.6	15
58	Oxidative Stress, Caveolae and Caveolin-1. Sub-Cellular Biochemistry, 2004, 37, 425-441.	1.0	14
59	Factorial design-assisted supercritical carbon-dioxide extraction of cytotoxic active principles from Carica papaya leaf juice. Scientific Reports, 2019, 9, 1716.	1.6	12
60	Caveolin-1 polarization in migrating endothelial cells is directed by substrate topology not chemoattractant gradient. Cytoskeleton, 2006, 63, 673-680.	4.4	11
61	The TLR4-Active Morphine Metabolite Morphine-3-Glucuronide Does Not Elicit Macrophage Classical Activation In Vitro. Frontiers in Pharmacology, 2016, 7, 441.	1.6	11
62	Cavin3 released from caveolae interacts with BRCA1 to regulate the cellular stress response. ELife, 2021, 10, .	2.8	11
63	Metal chelator NNNâ€™ Nâ€™-tetrakis-(2-pyridylmethyl)ethylene diamine inhibits the induction of heat shock protein 70 synthesis by heat in cultured keratinocytes. Biological Trace Element Research, 1998, 65, 261-270.	1.9	10
64	Lithium reverses mechanical allodynia through a mu opioid-dependent mechanism. Molecular Pain, 2018, 14, 174480691775414.	1.0	10
65	Stable isotope-labelled morphine to study <i>in vivo</i> central and peripheral morphine glucuronidation and brain transport in tolerant mice. British Journal of Pharmacology, 2018, 175, 3844-3856.	2.7	10
66	A role for caveola-forming proteins caveolin-1 and CAVIN1 in the pro-invasive response of glioblastoma to osmotic and hydrostatic pressure. Journal of Cellular and Molecular Medicine, 2020, 24, 3724-3738.	1.6	9
67	Effect of lysine antifibrinolytics and cyclooxygenase inhibitors on the proteolytic profile of breast cancer cells interacting with macrophages or endothelial cells. British Journal of Anaesthesia, 2014, 113, i22-i31.	1.5	8
68	Express in Vitro Plasmid Transfection Achieved with 16 ⁺ Asymmetric Peptide Dendrimers. ACS Biomaterials Science and Engineering, 2016, 2, 438-445.	2.6	8
69	Correlation of the invasive potential of glioblastoma and expression of caveola-forming proteins caveolin-1 and CAVIN1. Journal of Neuro-Oncology, 2019, 143, 207-220.	1.4	8
70	Application of Solâ€™Gels for Treatment of Gynaecological Conditionsâ€™Physiological Perspectives and Emerging Concepts in Intravaginal Drug Delivery. Gels, 2022, 8, 99.	2.1	8
71	Morphine Binds Creatine Kinase B and Inhibits Its Activity. Frontiers in Cellular Neuroscience, 2018, 12, 464.	1.8	7
72	Opioid Receptor-Mediated and Non-Opioid Receptor-Mediated Roles of Opioids in Tumour Growth and Metastasis. Frontiers in Oncology, 2021, 11, 792290.	1.3	7

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73	Altered localization of H-Ras in caveolin-1-null cells is palmitoylation-independent. <i>Journal of Cell Communication and Signaling</i> , 2007, 1, 195-204.	1.8	6
74	Role of Extracellular Domain Dimerization in Agonist-Induced Activation of Natriuretic Peptide Receptor A. <i>Molecular Pharmacology</i> , 2008, 73, 431-440.	1.0	6
75	Caveola-forming proteins and prostate cancer. <i>Cancer and Metastasis Reviews</i> , 2020, 39, 415-433.	2.7	6
76	High intraluminal pressure promotes vascular inflammation via caveolin-1. <i>Scientific Reports</i> , 2021, 11, 5894.	1.6	6
77	New Insights on Tramadol and Immunomodulation. <i>Current Oncology Reports</i> , 2021, 23, 123.	1.8	6
78	Could endothelial caveolae be the target of general anaesthetics?. <i>British Journal of Anaesthesia</i> , 2006, 96, 547-550.	1.5	4
79	Compound Identification and In Vitro Cytotoxicity of the Supercritical Carbon Dioxide Extract of Papaya Freeze-Dried Leaf Juice. <i>Processes</i> , 2020, 8, 610.	1.3	4
80	Opioid Analgesic Agents and Cancer Cell Biology. <i>Current Anesthesiology Reports</i> , 2015, 5, 278-284.	0.9	3
81	The Role of Perioperative Pharmacological Adjuncts in Cancer Outcomes: Beta-Adrenergic Receptor Antagonists, NSAIDs and Anti-fibrinolytics. <i>Current Anesthesiology Reports</i> , 2015, 5, 291-304.	0.9	3
82	Morphine and Metastasis: From Bench to Bedside. , 2013, , 1-13.		2
83	Could Opioids Affect Cancer Recurrence or Metastases? <i>Current Experimental and Translational Evidence</i> . , 2013, , 79-94.		1
84	A simple liquid extraction for simultaneous determination of 12 opioid ligands in plasma by LC-MS/MS. <i>Analytical Methods</i> , 2022, , .	1.3	1
85	Cooperative Effects of Zinc / Selenium and Thiols in the Protection Against UV-Induced Genomic DNA Damage. , 2002, , 77-82.		0
86	Abstract 4950: Hypercholesterolemia promotes prostate cancer PC-3 metastases in orthotopic xenograft mice. , 2014, , .		0